

# DISCOVERY

The Development of Combat Power and Efficiency

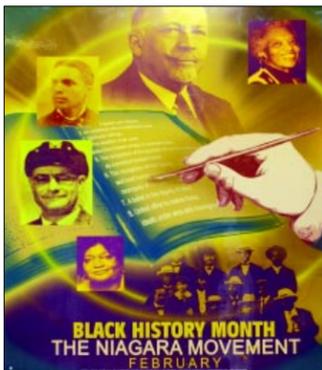
Vol. 29, No. 4 - Friday, Feb. 18, 2005 - Brooks City-Base, TX

Through the Many Facets of Aerospace Medicine

## Niagara Movement stirs interest in Black history

By Rudy Purificato  
311th Human Systems Wing

The history of a people is characteristically marked by watershed events that define them, and more importantly, have a lasting, generational impact. Part of the fabric of American history is a little-known chapter in Black history that was pivotal for inaugurating the process by which African-Americans gained their civil rights nearly 60 years later.



Called the Niagara Movement, its centennial commemoration this year during Black History Month focuses on its importance as the first major civil rights organization in our nation's history.

"Most blacks haven't heard of the Niagara Movement because it is not widely known within the black community," said Tech. Sgt. David Roberson, an African-American member of the Brooks Black History Month Committee.

This 311th Medical Squadron bioenvironmental engineering craftsman believes that education of all people about our col-

lective heritage helps foster understanding, and hopefully, acceptance among various ethnic groups. He said, "Once America incorporates Black history into American history, we won't need to have a separate month commemorating it."

To Sergeant Roberson, who has studied Black history for many years, the Niagara Movement represents the beginning of African-Americans' long journey, in the post-slavery era, to fully achieving their God-given rights within a free society.

The few Black history courses offered at American institutions of higher learning, such as Harvard University, examines the Niagara Movement as a sentinel event in the struggle for civil rights. Its creation in 1905 by a handful of African-American activists would lead to the creation of the National Association for the Advancement of Colored People.

The NAACP's political and social influence, combined with initiatives by Dr. Martin Luther King, Jr. and the Southern Christian Leadership Conference, led

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Photo by Staff Sgt. Alfonso Ramirez Jr.

Beginning Monday, vehicles entering Brooks without a valid decal will be recorded in a log sheet.

## Changes being made at main gate

Effective Monday, vehicles entering Brooks City-Base without a valid Department of Defense or Brooks City-Base decal will be recorded in a log-in sheet at the West Gate after positive identification through presentation of a valid driver's license to security personnel. This security procedure will be in effect 24 hours a day, seven days a week.

DoD personnel – uniformed, civilian and contractor – who do not have a current, valid DoD decal should obtain one prior to Monday to avoid inconvenience. Decals may be obtained at the

Military Personnel Flight's Pass and Registration Office, Bldg. 570-B, from 7:15 a.m. to 4:15 p.m. Monday through Friday, except Wednesdays when the office closes at 3 p.m. for training.

Each employee will need a current driver's license, valid ID card, proof of current auto insurance and current registration or title to the vehicle to be issued a decal. The Pass and Registration Office currently has an adequate supply of decals.

Brooks Development Authority tenants and contractors re-

quiring BDA decals may obtain them from the BDA Offices in Bldg. 1164. Employees should park outside the fenced lot at Bldg. 1164 on Challenger Drive across from the MWR Marketing Office, and enter the building through the doors marked "Brooks City-Base Stickers." The BDA decal office is open 9 to 11 a.m. and 1 to 2 p.m. Monday through Friday.

As a reminder, the "Hill Gate" is open weekdays 6:30 to 8 a.m. and 3:30 to 5 p.m. for vehicles with DoD or Brooks City-Base decals only.

## Civilian workforce impacted by personnel system

By NSPS Program Executive Office and Kendahl Johnson, Discovery

The Department of Defense and the Office of Personnel Management submitted the proposed regulations for the National Security Personnel System for publication in the Federal Register Feb. 10.

The proposal offers rules and processes for a new human resources sys-

tem for DoD civilian employees regarding pay and classification, performance management, hiring, workforce shaping, disciplinary matters, appeals procedures, and labor-management relations.

"This is a major change to our civilian personnel system," said Cynthia Sanders, who was appointed as the project implementation officer for Brooks City-Base for the NSPS. "The entire civilian workforce will be impacted."

NSPS was signed into law Nov. 24, 2003, and for the past year DoD and OPM officials have been working to design a modernized, performance-based civilian personnel system. NSPS will improve the way DoD hires, assigns, compensates and rewards its employees, while preserving the core merit principles, veterans' preference and important employee protections and benefits of the current system.

The proposed regulations are the result of a broad-based effort that included input from DoD employees, supervisors, managers, senior leaders, union representatives and public interest groups.

"The NSPS will provide the Department of Defense with a modern, flexible and agile human resources system that can be more responsive to the national security environment while pre-

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Everything in this publication is edited, prepared and provided by the 311th Human Systems Wing Public Affairs Office of Brooks City-Base. Material for the Discovery should be typewritten, double-spaced and submitted to 311HSW/PA, 2510 Kennedy Circle, Brooks City-Base, TX 78235-5115 by noon the Wednesday prior to the week of publication. All photos are Air Force photos unless otherwise indicated. Articles may also be submitted by fax by calling 536-3235 or by e-mail.

Articles may be submitted by email to Kendahl.Johnson@brooks.af.mil or to Discovery@brooks.af.mil.

The Discovery is published every other week on Friday. Contact the editor at 536-5141 for more information.

Discovery advertising  
Deadline for display advertising is noon the Friday preceding the publication date. To advertise in the Discovery, call 675-4500 or send advertising copy to Prime Time Military Newspapers, P.O. Box 27040, San Antonio, Texas 78227.

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## Remembering heroes of space

By 1st Lt. David Gemas

Air Force Research Laboratory Sensor Directorate engineer

HANSCOM AIR FORCE BASE, Mass. — Thirty-eight years ago America lost its first astronauts in a spacecraft-related accident. As you can see from the list of astronauts below, the military and the Air Force in particular have played a leading role in the conquest of space and have lost some fine individuals in that pursuit.

The idea of what astronauts do strikes a deep chord with me. It embodies most of the things I find worthwhile and admirable in human nature: the desire to explore, to understand the universe and ourselves, to reach higher and farther.

President John F. Kennedy said it best in his speech at Rice University on Sept. 12, 1962. "There is no strife, no prejudice, no national conflict in outer space, as yet. Its hazards are hostile to us all. Its conquest deserves the best of all mankind, and its opportunity for peaceful cooperation may never come again. But why, some say, the moon? Why choose this as our goal? And they may well ask why climb the highest mountains? Why, 35 years ago, fly the Atlantic? Why does Rice play Texas?"

President Kennedy continued, "We choose to go to the moon. We choose to go to the moon in this decade and do the other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one which we intend to win, and the others, too."

I grew up wanting to be an astronaut and still do. Since the excitement of the Apollo program ended, most astronauts have been anonymous. Unless something goes wrong, we don't hear their names or learn about their missions. I think it is important to remember them, and the sacrifices they have made, just as we should remember and honor the Soldiers and Sailors of D-Day. In both cases, what was done was done for all of us.

People around here know all the statistics of the local sports teams. Why so much attention is given to

people who are so grossly overcompensated for the job of entertaining us for a few hours on a Sunday afternoon is beyond me.

Perhaps it is simply human nature to forget when people give everything they have, even their lives for a cause.

Maybe it somehow makes us uncomfortable by causing us to subconsciously compare our own courage and devotion to these heroes, and perhaps we fear we come up short.

Maybe that makes it easier to compare ourselves to someone who makes millions of dollars to play sports or to act. I'm not sure what the underlying cause is, but the essential truth is that we pay far more attention to pretend heroes than to the real thing.

I guess remembering those astronauts who have died while trying to conquer space is the least I can do to say I don't think things should be that way and to say thank you to people who have done something that I could not do; something that they did for the betterment of all of us.

Take a moment to remember the lives and achievements of the following men and women:

Apollo I (Jan. 27, 1967)

Lt. Col. Virgil "Gus" Grissom, U. S. Air Force; Lt. Col. Ed White II, U. S. Air Force; Lt. Cmdr. Rodger Chaffee, U.S. Navy.

Challenger, STS-51L (Jan. 28, 1986)

Maj. (ret) Francis "Dick" Scobee, U.S. Air Force; Capt. Michael Smith, U.S. Navy; Judy Resnik, Ph.D.; Lt. Col. Ellison Onizuka, U.S. Air Force; Ron McNair, Ph.D.; Capt. (ret) Greg Jarvis, U.S. Air Force; Christa McAuliffe, educator.

Columbia, STS-107 (Feb 1, 2003)

Col. Rick Husband, U.S. Air Force; Cmdr. William McCool, U.S. Navy; Lt. Col. Michael Anderson, U.S. Air Force; Kalpana Chawla, Ph.D.; Capt. Laurel Clark, U.S. Navy; Col. Ilan Ramon, Israeli Air Force; Capt. David Brown, U.S. Navy.

## What does it mean to be a 'Wingman?'

Commentary by Lt. Col. Lawrence O. Roche  
27th Intelligence Support Squadron commander

LANGLEY AIR FORCE BASE, Va. -- The Romans, while not the first to understand the central principle behind having "wingmen," were some of the first to document the importance of the wing position. The most basic Roman battle lines were arranged with the infantry in the center and cavalry on the wings. The main purpose of the cavalry was to protect the center from being outflanked.

For the Army to succeed, it was imperative that the infantry and cavalry understood and followed a prearranged plan and moved with a single purpose. Separately, neither the infantry nor the cavalry stood much chance at defeating an opponent, but together, watching out for each other, they were a formidable force.

The Roman Empire and its lasting contributions to the civilized world would not have been possible without a well-disciplined army and sound principles.

The weapons used to wage war have changed dramatically since the Romans, but the principles guiding their employment have not. Today, one of the most important and trusted positions in a formation of aircraft belongs to the wingman. While we have exchanged cavalry horses for F-15 Eagles, the wingman's job remains the same: to protect the lead aircraft.

So what does any of this have to do with us? As Airmen, we are all part of a much larger team. The combined effect of individual efforts and skills make our Air Force the most powerful air force in the world. None of us could do our jobs without the support of others. We count on our teammates to do their part so we can do ours. We share a common purpose and we know when we need help, our teammates will be there

to pitch in and make the mission a success. All of us need a wingman to succeed.

Being a good wingman is a 24-hour-a-day job. The principles apply both on and off duty and are anchored in personal commitment. Good wingmen have many important qualities. First, they have a moral compass that always points true north. They know the right thing to do and take action to do it. Second, they "keep their head on a swivel," searching the horizon for any sign of trouble and step in to prevent it. Third, a good wingman learns to lead just as well as follow. We all must be prepared to step up and lead when required, just as we must all be ready to follow once a decision is made.

Although these ideas may seem somewhat abstract, they translate easily into everyday actions. Actions can be as simple as asking a teammate how they are doing and then listening to them when they tell you, or to taking the keys from a friend who has had too much to drink.

Being a good wingman means ensuring your supervisor isn't bogged down with disciplinary issues due to your momentary lack of judgment. It means taking the time to double check your work and fix any errors without being told.

A good wingman reminds his or her buddies about a meeting starting in five minutes. It means taking care of each other so the team can take care of the mission. It means protecting each other's flank and building and keeping our trust in one another.

Our nation counts on us to defend its greatest possession, freedom. When we joined the Air Force we accepted that challenge and responsibility, and the price of failure is unacceptable.

Just like the Romans, individually we will fail, but together we are a formidable force. Our fellow Airmen and country depend on us to be great wingmen.



# Brooks' course trains international military physicians

By Elizabeth Castillo  
Discovery staff writer

Many of the world's top military physicians assemble once-a-year at Brooks City-Base to take part in what is arguably the finest training for international up-and-comers in the aerospace medicine profession.

Brooks is home to the Advanced Aerospace Medicine for International Medical Officers course, a 23-week course that specializes in educating physicians in the field of aerospace medicine and focuses on training handpicked international medical officers for professional responsibilities as aerospace medicine consultants, flight surgeons, investigators, teachers and directors of aerospace medicine programs in their country's respective air forces.

"For the Air Force, this is the only place where we have this kind of training in aerospace medicine," said Col. Hadley Reed, chief of the international training division. "In the specialty field of aerospace medicine, we are it; we are the center of the aeromedical universe for the Air Force and on an international scale."

Not just anyone is admitted to the prestigious course. In order to participate in the AAMIMO program, students must be international medical officers sponsored by their military or government.

According to Colonel Reed, governments tend to send their best and brightest medical students, individuals who are being prepared for prominent careers serving as their country's top medical positions. In fact, course graduates representing 20 different countries around the globe have gone on to become their countries equivalent of surgeon general.



Photo by Staff Sgt. Brandy Bogart

A student of the AMMIMO course takes a seat in the centrifuge as part of his Brooks training. The course prepares international military physicians for careers in aerospace medicine.

Seven of Germany's chief medical officers graduated from AAMIMO.

"AAMIMO is the most well-known course because it is the longest, and in some respects, I think it is considered one of the most influential," Colonel Reed said. "Because it is so long, it's a huge investment of time and resources by the student's country. Countries invariably only send us students that are being groomed for greater things. Many students from this course go on to become their country's senior medical officer."

Classes are set for one class per year, and contain anywhere from four to 18 students. The current class contains eight students from seven different countries including Denmark, Germany, Greece, India, Sri Lanka, Taiwan and Turkey. The

students involved volunteer for this exclusive course but must also meet the set prerequisites given by the USAF.

According to excerpts from the U.S. Air Force School of Aerospace Medicine's AAMIMO course education plan, potential students must have practiced aerospace medicine for a minimum of one year after completion of the prerequisite training required in the aerospace medicine primary course. They must also possess the ability to read, write and have a speaking knowledge of the English language and they must pass physical qualification.

"Aerospace medicine borrows directly from half a dozen or more different medical specialty fields such as occupational medicine, for example, but we do not just practice any one of those specialties

alone; we are not just occupational medicine doctors," Colonel Reed said. "It is the combination of all of these things that becomes in and of itself our own unique specialty."

Beyond learning about aerospace medicine, the AAMIMOs also build lasting personal and professional relationships, not only with those in the Air Force, but also with other members of their class. When they graduate with their new found knowledge, they know they can always "reachback" as alumni for expert assistance and know they will be looked to in the future as pivotal people for coalition partner medical operations.

The long-lasting international relationship building the AAMIMO course provides is considered one of the major benefits the Air Force derives from giving the course.

"We learn from them as well. Seeing how they address the challenges of aerospace medicine in their own countries gives us plenty of opportunity to grow together in our understanding of the specialty," Colonel Reed said.

Through the AAMIMO program, international students learn the techniques, skills and knowledge to become successful flight surgeons that will assist their own pilots and crew to become an altogether more healthy command, in order to better serve their own nations missions.

In addition to the academic training in aerospace medicine, students participate in the Department of Defense Informational Program for International Military Trainees, whose goal is to assist the student in acquiring a balanced understanding of U.S. society, institutions and goals. This includes a week long guided tour of the U.S. capital during the AAMIMO course.



# Brooks sergeant 'surprised' by STEP promotion

By Kendahl Johnson  
Discovery editor

For one former technical sergeant, getting his first top stripe at a promotion ceremony was tantamount to his first parachute out of a military aircraft.

"You train, study and remain focused and determined while waiting for jump day to arrive," said Master Sgt. Kenton Lee. "Then before you know it, you're out of the aircraft and you have an open chute over your head."

Sergeant Lee, NCOIC of the 311<sup>th</sup> Human Systems Wing, was recently promoted from technical sergeant under the Stripes for Exceptional Performance program. Not only was the promotion a "total surprise" and "completely unexpected" for the sergeant, it was also an overwhelming thrill much like jumping from a plane.



Photo by Staff Sgt. Brandy Bogart

Flanked by Col. Laura Alvarado, vice commander of the 311<sup>th</sup> Human Systems Wing and Chief Master Sgt. Reggie Williams (right), command chief of the 311<sup>th</sup> HSW, Master Sgt. Kenton Lee gets a welcome surprise when he is promoted from technical to master sergeant.

"He looked like he was going to faint up there. It was rewarding to see it; it was great," said

1<sup>st</sup> Lt. Jason Sanchez, who nominated Sergeant Lee for the promotion. "He has definitely been

a top performer throughout his entire career in the Air Force."

The STEP program is designed to recognize and promote outstanding individuals that have done a great job throughout their careers. The Air Force Materiel Command is allotted just five STEP promotion slots for master sergeant.

"Of all the challenges and opportunities I have had, none come close to the moment the stripes were presented to me," Sergeant Lee said. "My 18 years of Air Force service have been a culmination of phenomenal supervisors, mentors, co-workers, peers and most importantly the love and support provided by family members."

Sergeant Lee called it an "honor" to be joining the senior non-commissioned officer corps and said he looks forward to the new challenges ahead.

## Base seeks volunteers for 2005 career day

Brooks City-Base needs motivated volunteers to act as escorts for the seventh annual Brooks Aerospace Career Day March 1-3. This event brings local high school students to the base for presentations and demonstrations in aerospace science, medicine and engineering careers. Students will be arriving and moving to facilities in buses, with escorts assigned to each group to facilitate movement to various activities and to answer any basic questions. Event coordinators expect as many as 1,800 students on base during this time with a need of 40 escorts each day to help facilitate the movement of the students.

Escorts must plan to spend the entire duty day away from normal duty section. If you would like to volunteer to escort, please contact Capt. Aaron Condel at 536-2224 or Jose Tijerina at 536-2892.



# Brooks clinic receives national recognition

By Elizabeth Castillo  
Discovery staff writer

The sign on the door reads "The Best Little Clinic in Texas," but this 'little clinic' has proven itself to be the best in all of the Air Force.

Brooks City-Base's clinic received country wide recognition at the annual TRICARE conference held in Washington, D.C. Jan. 27th. They were recognized among 85 other medical treatment facilities as being the number one MTF in the Air Force Medical Service.

"That's what this is all about - quality and trying to improve the quality of healthcare," said Lt. Col. Tom Duquette, commander of the 311th Medical Squadron, about the recognition.

The Air Force Surgeon General's Performance Improvement Board is responsible for monitoring key performance areas for the surgeon general, who identifies measurable key performance indicators.

It is with these indicators that the PIB ranks the top five performers and the bottom five performers. This is how the MTFs attempt to determine reasons for good performance and ways to improve poor performance.

"We never used to have an organized way of doing this, but a few years ago they created this program where essentially each major command looks at their performance and we talk about how we are doing through a teleconference," said Colonel Duquette.



Photo by Staff Sgt. Alfonso Ramirez Jr.

The Brooks City-Base health clinic received Air Force-wide recognition at the annual TRICARE conference in January when it was named the top medical treatment facility in the Air Force.

The PIB reviews the measurements related to key performance areas with each of the MAJCOMs on a monthly basis. It is required that each facility track themselves and monitor their progress so they can make adjustments to their businesses in order to provide better healthcare service.

The MAJCOM PIB review has key balanced scorecard metrics that change each year and this year included areas such as coding compliance, access to care, primary care manager schedule availability, medical records available for audit and childhood immuni-

zations.

"For the full year of 2004 we wound up doing better than the rest. It is definitely a challenge and is tough to do," Colonel Duquette said.

Ultimately everything is based on a scale. According to Colonel Duquette, even though the clinic and the population are smaller than a larger base, there are fewer resources to manage them so challenges are therefore the same.

The size of the clinic is incomparable to its impact on the Brooks community. It is the only clinic at Brooks, and it manages to service enlisted, officers and the community efficiently and profoundly. Though the etching on the door says "little clinic," this clinic is successful in a big way.

**For the full year of 2004 we wound up doing better than the rest. It is definitely a challenge and is tough to do.**

Lt. Col. Tom Duquette  
Commander, 311th Medical Squadron



**BASE CHAPEL**  
**536-3824**

## Regular Schedule

Monday through Wednesday:  
Mon. - Wed. — Catholic Eucharist  
11:30 a.m. — Thursday Mass

Mondays:  
11 a.m. — Protestant choir rehearsal

Wednesdays:  
Noon — Christian Life-Builders Lunch  
5:30 p.m. — Catholic choir rehearsal

Thursdays:  
11:30 a.m. — Catholic Mass  
11:30 a.m. — Women's "Purpose Driven Life" study group

Sunday services:  
9 a.m. — Catholic Mass  
9 a.m. — Protestant Sunday School  
10:30 a.m. — Protestant Worship  
10:30 a.m. — Catholic religious education  
Noon — Protestant choir rehearsal  
5 p.m. — Christian Fellowship & Bible Study

**Project CHEER**  
**Casino Night**  
**February 24**



## Brooks Black history supporter recalls father's struggle for voting rights

By Rudy Purificato  
311th Human Systems Wing

He was born 40 years ago when landmark federal legislation was enacted that gave African-Americans unimpeded voting rights.

Today, Tech. Sgt. David Roberson enjoys the freedom of voting, without restrictions, that was once denied to his parents and many other African-Americans primarily living in the South.

The Voting Rights Act of 1965 restored to African-Americans what had been previously guaranteed under the 15th Amendment to the U.S. Constitution. Obstacles infringing upon their right to vote, however, had been created in the southern states that effectively disenfranchised several generations of African-Americans until federal law made illegal these impediments to voting. One such tactic, literacy tests, had prevented Sergeant Roberson's father from casting his vote.

"Both my parents, David and Angie Roberson, were teachers who grew up in the segregated South. My father told me stories about living in Mississippi where blacks were considered second-class citizens," said Sergeant Roberson, NCOIC for the 311th Medical Squadron's Industrial Hygiene Element.

Having grown up on the southside of Chicago, this Air Force bioenvironmental engineering craftsman became interested in Black history after hearing his father's story about being forced to take a literacy test as a prerequisite to voting.

"Dad had already graduated from Alcorn State (Miss.) with a degree in biology when he went to register to vote," Sergeant Roberson said.

The time was the late 1950s, a turbulent era



TECH. SGT.  
DAVID ROBERSON

when the civil rights struggle was in its infancy. Mississippi had become a caldron of controversy for resisting change, especially in the area of voting equality. Mr. Roberson, Sr. had no choice but to submit to biased practices that masqueraded as a voting system in Mississippi.

He knew that challenging such a system then would not be in the best interests of his family. While his voting 'experience,' or lack thereof, became for him a bitter memory, he had saved himself much grief and possible retribution in a state that would be scandalized by a terrible civil rights incident only a few years later.

Two young white civil rights workers from the north, Michael Schwerner and Andrew Goodman, along with James Chaney, a 21-year-old African-American, were murdered on June 21, 1964 near Philadelphia, Miss. They were allegedly killed by a member of the Ku Klux Klan for helping register black voters in Mississippi during a "Freedom Summer" voting drive. This incident became a catalyst for change leading to passage of the Voting Rights Act a year later.

The same conditions that led to these murders also existed when Mr. Roberson tried to register to vote. "He had to take a literacy test to vote. He did not pass the test, which was rigged," said Sergeant Roberson. His father had already been accepted for a master's degree program in biology at Cornell University, a prestigious Ivy League school. Considered 'illiterate' by Mississippi voting standards, his dad later earned a second master's degree from the University of Illinois at Urbana-Champaign.

Before he departed the south for a career as an educator, Mr. Roberson was interviewed by CBS newsman Mike Wallace about the problems he experienced taking what was then characterized as a bogus literacy test.

"It made me want to research Black history," Sgt. Roberson said.

## NSPS a performance-based system

Continued from page 1

serving employee protections and benefits," said Eric Stephens, deputy director of the 311th Human Systems Wing.

While implementation of the NSPS will begin as early as July for some bases, Brooks is scheduled to implement the NSPS in January 2006. Ms. Sanders and Eric Dilworth, mission support officer, are forming an implementation team to educate the base in the progress of the NSPS implementation and to work towards a smooth transition from the old system.

At a Feb. 10 press conference, Navy Secretary Gordon England, who serves as the DoD's senior executive overseeing the NSPS, and Dan Blair, acting director of the OPM, called the publication of the proposed NSPS regulations a critical milestone in the development of this new personnel system that will emphasize performance rather than longevity as it provides more agile, flexible support to DoD's missions. Mr. England stated, "NSPS is a win-win-win system ... a win for our employees, a win for our military and a win for our nation."

Mr. Blair stated that NSPS will give DoD employees and managers "greater flexibility to accomplish their vital national security mission." He further stated, "True to the intent of the enabling legislation, the proposed regulations successfully balance

the mission requirements of the department and the need to maintain core civil service principles and values."

The proposed regulations were published in the Federal Register Monday, initiating a 30-day formal public comment period, providing all interested parties the opportunity to submit comments and recommendations on the content of the proposal. After the comment period, DoD will initiate the statutory meet and confer process with employee representatives for 30 days to discuss their views and concerns regarding the proposed regulations and seek common ground. DoD will report the results and outcome of the meet and confer period to Congress prior to finalizing the regulations, which should occur this spring.

There is a broad-based effort to include all stakeholders in the design and development of NSPS and all interested parties are encouraged to submit comments and continue to be part of that effort.

DoD employees as well as interested parties can visit the NSPS website at [www.cpms.osd.mil/nsps](http://www.cpms.osd.mil/nsps) to view and comment on the proposed regulations as well as for the most recent information and announcements regarding NSPS.



**BRIG. GEN. TOM TRAVIS**  
311th Human Systems  
Wing commander

# ACTION LINE

## 536-2222

The **COMMANDER'S ACTION LINE** is your opportunity to make Brooks a better place to live, work and play.

If you have a suggestion for improvement, a complaint or a problem that you have not been able to resolve through normal complaint channels or the chain of command, call the **COMMANDER'S ACTION LINE, 536-2222.**

Only items of general interest will be published, so please leave your name and number for a personal response.

**The base agencies listed below can be contacted directly:**

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SFS after duty hours.....	536-2851	Civilian Personnel.....	536-3353
311th Civil Engineer Squadron.....	536-3861	Military Pay.....	536-5778
311th Communications Squadron.....	536-6571	Civilian Pay.....	536-8370
311th Mission Support Group—		Inspector General (FWA).....	536-2358
Logistics Division.....	536-3541	Military Equal Opportunity.....	536-2584
Safety.....	536-2111	EEO Complaints.....	536-3702
Housing Maintenance.....	533-5900	BXMarket.....	533-9079
Housing Office.....	533-5905	Brooks Development Office.....	536-3655
311th Services Division.....	536-2545	Brooks City-Base Marketing and	
311th Medical Squadron (Clinic).....	536-4715	Development Office.....	536-5366

## FAMILY SUPPORT CENTER

### VA BENEFITS ASSISTANCE

Mondays — 9 a.m. - 1 p.m., Bldg. 537

A VA representative will be at Brooks weekly. Schedule an appointment to receive VA assistance in filling out your claims, screen medical records, or one-on-one consultations. Bring a copy of your medical records.

### PRE-DEPLOYMENT BRIEFING

Feb. 22 — Bldg. 537

This is a mandatory briefing held the last Tuesday of every month. The briefing addresses issues pertaining to deployed service members and their families.

### TAX SEMINAR

Feb. 22 — 11 a.m. - 1 p.m., Bldg. 537

Learn about important tax changes for 2004 including new itemized deduction options, changes affecting retirement savings plans, and increased standardized deductions and exemption amounts.

### FEDERAL JOB SEARCH WORKSHOP

Feb. 24 — 8:30 a.m. - 4 p.m., Bldg. 537

Learn the ins and outs of navigating the Federal Job system. Bring your most recent resume and vacancy announcements or job advertisements you have found. Bring a list of courses you have completed in any recent college or other educational program. This workshop also includes a briefing from Civilian Personnel office.

### RESUME WORKSHOP

March 7 — 11 a.m. - 1 p.m., Bldg. 537

Are you looking for a job? Learn the different resume styles and how to write and use them effectively to open career opportunities; learn the do's and don'ts of resume development; and as an added bonus, learn how to develop impressive cover and thank you letters.

### TRANSITION ASSISTANCE SEMINAR

March 8-10 — 8 a.m. - 4 p.m., Bldg. 537

Making the transition from the military to the civilian sector can be a big undertaking. This seminar allows us to better serve those separating and retiring members and their spouses. Topics include job search preparation resume writing, interviewing skills to include appropriate dress, veteran's benefits, and much more. One should attend at least 180 days prior to retirement/separation.

### STARTING AND PLANNING YOUR OWN BUSINESS

March 14 — 1 - 4 p.m., Bldg. 537

Presented by David Baenzler, Certified Business Advisor, Institute for Economic Development, UTSA Small Business Development Center. If you are starting a business for the first time or wanting to know more about it, this class is for you. Gain knowledge on legal structures, tax requirements, how to evaluate a business idea and how to plan for a successful business. Whether you want to run a part-time or full time business, this information is applicable to fit any industry from consulting to retail to services.

### SPONSOR TRAINING

March 15 — 10 - 11 a.m., Bldg. 537

In accordance with AFI 36-3011, sponsor training is mandatory of all first-time sponsors and those who have not sponsored within the past year. However, others are more than welcome to attend. Learn about tools and resources available for sponsors.

### SEPARATION AND RETIREMENT

March 16 — 9 a.m. - 4 p.m., Bldg. 537

This is a mandatory class for active military personnel who are retiring or separating within 120 days. Topics covered are Pre-Separation, Veterans Benefits, Survivors Benefit Plans, TRICARE, and Financial Planning for Transition. Spouses are encouraged to attend.

### AIR FORCE AID SOCIETY

The Gen. Henry Arnold Education grant program awards \$1,500 grants to dependent sons and daughters of Air Force members and spouses of Air Force members. Use of fund is limited to tuition, books and fees, or other direct educational expenses. This program is tailored for Air Force families with college students (rank does not disqualify you). Application deadline is March 11, 2005. Pick up your application at the Family Support Center or visit the website at [www.afas.org](http://www.afas.org) for an application or for more information.

To register for class,  
Call 536-2444 or  
877-747-5938



## MPF now offers passport photos



Photo by Staff Sgt. Alfonso Ramirez Jr.

A customer of the Military Flight Personnel office poses for a passport photo. The MPF's Customer Service Center in Bldg. 570 replaces the 311th Communications Squadron's Multimedia Center as the new venue for official passport photos.

By Rudy Purificato

311th Human Systems Wing

Getting your passport photo taken and processed at Brooks has become even easier now, thanks to a joint initiative that has streamlined operations 'in a snap.'

The Military Personnel Flight's Customer Service Center in Bldg. 570 is the new venue for official passport photos. The service was recently transferred from the 311th Communications Squadron's Multimedia Center to enhance customer support and consolidate processes.

"Having this service at MPF will help customers in several ways. At one place, customers can process their passport request and have their photo taken without an appointment," said Master Sgt. David Riggs, Multimedia Center manager. He explained that this new process will give customers more flexibility, especially those traveling with families.

Before passport photo service was moved to MPF, Sergeant Riggs explained, customers were involved in a time-consuming 'three-stop'

process. This process required customers to obtain the necessary work order (AF Form 833) from MPF or the Civilian Personnel Office, travel to Multimedia in Building 130 for their photo session and return to MPF to process the paperwork.

"Often, customers did not bring the (AF Form) 833 we needed to process their request. This created frustration and miscommunication in the passport process," Sergeant Riggs said.

The 'one-stop shopping' business approach applied to passport photos has increased efficiency, Sergeant Riggs explains, while providing increased access to this service during duty hours. It has also freed up Multimedia photographers for other missions.

"I'm very pleased with how well this transition has been made," Sergeant Riggs said, crediting Tech. Sgt Anita Schroeder, Multimedia NCOIC of photography, for proposing and implementing the initiative.

"She did a tremendous job of putting together the training plan and working with MPF to provide training to their personnel. She is an excellent example of how innovative thinking can be used to truly support mission operations. This was truly a total team effort," the Multimedia manager said.

The training Sergeant Schroeder provided involved federal regulations governing passport photos. This includes a new U.S. State Department policy that requires passport photos depicting citizens not smiling. "Before, it didn't matter whether you were smiling or not in your photo. However, smiling changes the shape of your face," said Sergeant Schroeder. She believes the new policy was adopted to meet stricter homeland security requirements.

Additionally, passport photo service is provided only to active duty military personnel and their dependents and federal civilian workers. MPF offers this service during customer service hours from 7:15 a.m. to 4:15 p.m. Monday through Friday, except on Wednesdays when the office closes at 3 p.m. For more information about passport photo service call 536-6955 or 536-1845.

**Project CHEER**  
**Casino Night**

February 24





# Brooks scientist helped pioneer AF optics research

By Rudy Purificato  
311th Human Systems Wing

Describing himself as a 'knotheaded' wayward youth, it's not a stretch to believe that Brooks scientist Lt. Col. (Dr.) William Pat Roach and his father didn't quite 'see eye-to-eye' on just about everything, especially a career plan with a future. Neither he nor his dad Windle envisioned anything other than a prolonged adolescence filled with aimless days for the so-called 'educationally challenged' youngster.

Nobody then had a clue that Colonel Roach was destined to become a visionary scientist. His laser-based optics research would lead to new Air Force laser eye protection standards and training and the development of a new microsurgical device that repairs eyes damaged by disease and abnormal tissue growth.

Colonel Roach looks back on his childhood with the wisdom that only comes with age, experience and finding one's purpose in life.

"I was lucky to have graduated from Woodrow Wilson High School (Long Beach, Calif.). I was not a bright student. I was more interested in being a knothed, Peck's Bad Boy," admits Colonel Roach, Air Force Research Laboratory's Detachment 5 deputy commander for the Human Effectiveness Directorate.

Born Oct. 21, 1951 in Imperial Valley, Calif., he didn't even hint of having ambition normally associated with first-born children. "Dad wanted me to go into

the Army," he recalls of his father, a World War II Army radioman who retired from the U.S. Border Patrol after a 41-year career. The Vietnam War raged while Mr. Roach's son weighed his options. "My draft number was five, but I didn't want to go," he said.

He eventually realized his life was going nowhere. He enlisted in the Air Force in 1971 with the idea of "bettering himself" by later attending college on the G.I. Bill. "I was a 19-year-old idiot when I became an administration specialist," he said, referring to a belief he would avoid Vietnam because he was a "desk jockey."

The aptitude tests he aced during basic training at Lackland AFB set him on a new career path as a cryptographic operator.

"I skipped tech school and received a direct duty assignment to the 1908th Communications Squadron at England AFB, La. For six months, I worked the switchboard as a telephone operator," he said.

The experience convinced him to again 'switch' career fields. "I needed a new challenge. I became a drug abuse counselor."

By 1973, he was in Southeast Asia assigned to the 388th Tactical Fighter Wing at the Royal Thai Korat Air Base. "The first thing I noticed there was that the war wasn't winding down," he said. He worked heroin abuse cases there for 22 months, a period in which Cambodia's and South Vietnam's capitals fell to the communists. He also witnessed his unit's pivotal role in rescuing the crew of the Ameri-

can supply ship Mayaguez, captured in 1975 in the Gulf of Siam.

After finishing his enlistment at F.E. Warren AFB in Cheyenne, Wyo., he separated from the Air Force to begin an academic career. "I initially went to college to become a social worker," he said.

However, by 1983 he had earned a degree in chemistry and mathematics from Avila College in Kansas City, Mo. Having graduated with honors as the class valedictorian, the former 'knothead' had created a demand for himself. He was ranked in the top ten percent of college chemistry majors in the U.S.

"I had offers from over 40 universities including Notre Dame and Georgetown," he said, opting instead to accept a Phillips Petroleum Fellowship to pursue a Ph.D in chemistry at the University of Kansas at Lawrence. However, he switched career paths and colleges to earn a master's degree with honors in solid state physics from the University of Missouri.

He described the move to physics as "a quantum leap" of faith, although he inherently knew that his life's calling was in that field. Prior to earning a doctorate in physics in 1990, he had visited Brooks AFB while training as a Lackland-based Air Force reservist. It was here where he met Dr. Bob Cartledge, the U.S. Air Force School of Aerospace Medicine laser lab's deputy chief. Two years later he was assigned to the laser lab after earning a direct Air Force commission as a health physicist specializing in ionizing radiation.

Colonel Roach became a pioneering USAFSAM scientist, working with Dr. Ben Rockwell and others on bioeffects research involving the eye. He would co-author new federally adopted standards for laser eye protection to prevent retinal injuries.

He was also involved in helping build one of the fastest laser energy devices on earth, the Air Force's second fempto laser. This device helped researchers make significant aerospace medicine breakthroughs. "At the time, there was no data on bioeffects of the eye," he said.

Subsequently assigned to the Air Force Office of Scientific Research, Colonel Roach secured funding for the ultra-short pulse laser bioeffects program that contributed to pilot safety. He also implemented the Air Force's biomemetrics program, designed to investigate natural biological materials for developing new infrared detection capabilities supporting air and ground-based missiles.

Many colleagues consider Colonel Roach's greatest scientific contribution to be his development of the Intraocular Laser Surgical Probe, a patented de-



Photo by Rudy Purificato

Lt. Col. Pat Roach is a living legend among Air Force scientists for his development of the intraocular surgical probe that revolutionized microeye surgery.

vice that uses laser energy to clear up vision obstruction and help reduce potential retinal detachments.

"The idea was to develop a probe that would cut tissue without (further) damaging the eye in corrective surgery," said Dr. Roach, who came up with the idea after watching Air Force ophthalmologist Dr. Cynthia Toth conduct retinal surgeries at Wilford Hall Medical Center.

Dr. Toth, a vitreoretinal surgeon at Duke University's School of Medicine, credits Colonel Roach for the probe idea designed to replace an older, more risky procedure using micro-scissors and a vitreous cutter. The device has since helped patients suffering from diabetic retinopathy.



## More teamwork, technology drive Air Force transformation

WASHINGTON -- Air Force officials will use more teamwork and technology in transforming the service into a more agile and efficient force for the 21st century, a senior Air National Guard officer.

The Air Force Reserve and Air National Guard will stay very much a part of current and future Air Force missions, said Brig. Gen. Charles Ickes II, deputy director of the Air National Guard.

The Air National Guard has long worked in tandem with its active-duty and Reserve brethren, General Ickes said, as part of the Department of Defense's total force concept. National Guard Airmen run 100 percent of the ground alert facilities as part of Operation Noble Eagle for homeland defense and security in the United States, he said.

All of the armed services have used their reserve components quite a bit in recent years especially supporting operations in Afghanistan and Iraq, General Ickes said. Almost 50 percent of the U.S. forces in Iraq are members of the Guard or Reserve.

"That just shows (how much) the guardsmen and the reservists (have) stepped up," he said.

And since much of the Air Force's mission involves deploying and maintaining high-tech aircraft, General Ickes said there is a tight bond between active-duty, Guard and Reserve pilots, aircrews and mechanics. That partnership will be expanded in coming years.

## Eagle Eyes program assists investigators in war on terrorism

Special Agent E. Darrell Link  
Office of Special Investigation

Your eyes and ears are the critical weapons in the war against terrorism. No matter how well trained and vigilant, law enforcement officials simply cannot be everywhere. Your eyes and ears—and those of your friends and family—can be of enormous help in preventing terrorism. After all, you know best what activities do, or do not, belong in and around your base, work facility, neighborhood and community.

To enlist help in preventing terrorism, the Air Force Office of Special Investigations created and manages the Eagle Eyes program. Eagle Eyes puts you on the anti-terrorism team by providing the information you need to recognize and report suspicious behavior and activities.

Your inputs — which you can submit 24 hours a day at 210-536-2677 or "911" — are immediately shared with appropriate law enforcement

agencies and military commanders for rapid assessment and investigation as necessary.

You and your families are highly encouraged to stay alert to your surroundings, whether on base or off, at home or elsewhere. Be on the lookout for suspicious activities described below, gather as many details as possible, and report the information right away to law enforcement authorities.

— Surveillance: Someone recording or monitoring activities, including the use of cameras (both still and video), note taking, drawing diagrams, writing on maps, or using binoculars or any other vision-enhancing devices.

— Elicitation: Anyone or any organization attempting to gain information or in person about military operations or people.

— Tests of Security: Any attempts to measure reaction times to security breaches or to penetrate physical security barriers or procedures.

— Acquisition of Supplies: Purchasing or stealing explosives, weapons, ammunition, uniforms, decals, flight manuals, passes or badges (or the equipment to manufacture them), or any other controlled items.

— Suspicious Persons: People who don't seem to belong in the workplace, neighborhood, business establishment, or anywhere else. This also includes suspicious border crossings, stowaways aboard ship or people jumping ship in port.

— Dry-Runs: Putting people into position and moving them about without actually committing a terrorist act, such as a kidnapping or bombing. An element of this activity could also include mapping out routes and determining the timing of traffic lights and flow.

— Deploying Assets: People and supplies getting into position to carry out an operation. This is the very last opportunity to alert authorities before an actual terrorist act occurs.

## A LOOK at BROOKS

If you could meet any famous person, who would it be and why?



Dolores Martinez  
USAFSAM/AT

JFK — he's an interesting person, and I would love to hear him give one of his speeches.



Tech. Sgt. Matthew Patrick  
USAFSAMEQ

Benjamin Franklin — I'd ask him if he really discovered electricity using the kite and key, and if he really got shocked.



Dorothy Castillo  
USAFSAM/AT

Mark Twain — I like his stories, anecdotes, and his sense of humor."



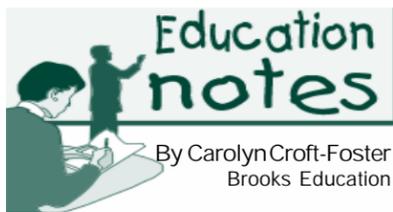
Mike Ramirez  
311th MSG

Avril Lavigne — so she can charge up my youth.



Staff Sgt. William Myers  
USAFSAM/EMEDS

Caroll Shelby — because I really like some of the cars he's made."



By Carolyn Croft-Foster  
Brooks Education

### **The National Graduate School of Quality Management**

The National Graduate School is now accepting applications for a master's program scheduled to begin in March. Classes will be held one night a week from 6 to 10 p.m. at Fort Sam Houston. Students will earn a degree in quality systems management. The Master's Business Project replaces a required thesis. The institution is regionally accredited, nationally recognized and eligible for VA/TA benefits. A representative visits Brooks City-Base Wednesdays. Call 536-3617 to schedule an appointment.

### **Tuition assistance through AFVEC**

Air Force members at Brooks City-Base preparing to register for college courses and request Air Force tuition assistance are encouraged to apply on-line using the Air Force Virtual Education Center. Air Force members will no longer need to access the Brooks home page to apply for tuition assistance, but can accomplish this request directly through AFVEC.

AFVEC is the Air Force's premier site for providing information about educational information and benefits. The purpose of this site is to provide students one-stop-shopping for all higher education needs. In addition to the on-line TA request, AFVEC offers a wide array of on-line services to empower the student to actively participate in all aspects of their education. These services are offered to encourage progress of each educational endeavor the student chooses to participate in; whether it is requesting tuition assistance, working towards their Community College of the Air Force degree or applying for commissioning.

Individuals may access AFVEC directly through the web site at <https://afvec.langley.af.mil> or through a link on the Air Force portal. Members will be required to know and enter basic course registration information in the on-line TA request.

### **Texas State University**

Texas State University offers a Bachelor of Applied Arts and Sciences degree. The BAAS degree provides an excellent opportunity for individuals to capitalize on prior work and training experiences. Students pursuing this degree may transfer semester

hours previously earned, individualize the degree plan with major emphasis in an occupational field of choice, and earn semester hour credit for work and life experience and training conducted by business, industry, and military. Night classes are available in the San Antonio and San Marcos area. For more information or to schedule an appointment, call 536-3618.

### **St. Mary's University**

St. Mary's University has a graduate school representative at the Education Office every Wednesday from noon to 2 p.m. St. Mary's offers 24 graduate programs, including business administration, computer information systems, industrial and clinical psychology, engineering systems and international relations.

St. Mary's also offers post-baccalaureate initial teacher certification for Texas. For qualified individuals, St. Mary's graduate school offers a partial tuition grant. Additional information can be obtained by scheduling an appointment with the St. Mary's representative through the Brooks Education Office.

### **Montgomery GI Bill participants can increase benefits**

Active duty personnel, currently enrolled in the Montgomery GI Bill, have the opportunity to increase Chapter 30 GI Bill benefits by \$5,400 — from \$23,400 to \$28,800 — for a maximum contribution of \$600. For more information, call 536-3618.

### **Upper Iowa on base and online**

Register now for Upper Iowa University – Distance Learning. Courses are available in business and public administration. Online and correspondence courses are also available in other majors. The Upper Iowa University office in the Brooks Education Center is open Monday through Friday. The coordinator also holds advising hours at Lackland on Thursdays. For more information, visit the website at [www.uiu.edu](http://www.uiu.edu) or call 536-4033.

### **Discover Program online**

The Discover Program is a career exploration program for individuals searching for a new career. This program can be used by military, civilians and family members. For more information or to schedule an appointment to review the website and get started, call 536-3617.

### **Spouses to Teachers Program**

The Department of Defense tasked Dantes to develop and manage a new pilot program to help spouses begin careers as teachers. The Spouses to Teachers Program has launched in six



## Niagara Movement a historical civil rights organization

Continued from page 1

to congressional passage of the Civil Rights Act of 1964. This landmark federal legislation guaranteed equal rights for African-Americans on a variety of issues ranging from hiring practices to fair housing.

None of this would have been possible if it weren't for the vision of Harvard-educated scholar Dr. W.E.B. DuBois and a group of 29 African-American leaders who risked everything to secretly found the Niagara Movement near Niagara Falls at the Erie Beach Hotel in Fort Ontario, Canada.

They crafted a manifesto, known as the Declaration of Principles, that called for full civil liberties, abolition of racial discrimination and recognition of human brotherhood. DuBois wrote, "We want full manhood suffrage and we want it now...We are men! We want to be treated as men." The manifesto contained language that incensed opponents to the Move-

ment during a period in American history known as "Jim Crow." It was an era where racial discrimination in its most violent form involved vigilante lynchings.

The manifesto read, in part, "We claim for ourselves every single right that belongs to a free-born American, political, civil and social; and until we get these rights we will never cease to protest and assail the ears of America. The battle we wage is not for ourselves alone, but for all true Americans. It is a fight for ideals, lest this, our common fatherland, false to its founding, become in truth the land of the thief and the home of the slave - a byword and a hissing among the nations for its sounding pretensions and pitiful accomplishment."

This Movement not only threatened the status quo promulgated by white America, but was a direct challenge to the leadership of Booker T. Wash-

ington, a prominent Black leader who had founded the Tuskegee Institute in Alabama. "DuBois did not like or accept the subservient role that Booker T. Washington had advocated," Sgt. Roberson said.

He explained that at the turn of the 20th century there was deep divisions within the African-American community. They were spilt by Washington's advocacy of accommodation to segregation and the more radical approach to social reform primarily promoted by DuBois and William Monroe Trotter.

While the Movement's membership had grown to 170 members in 34 states by 1906, division within its ranks would eventually lead to its disbandment by 1910. Historian Stephen Fox believes the Movement's radical message, too militant for the time, partly led to its demise. However, many of the ideas that it had spawned were subsequently adopted by the NAACP.

### SAY CHEESE!



Courtesy photo

The children of Brooks Youth Programs participated in the "Give Kids A Smile 2010" celebration as part of February's Dental Health Month. The youth created "strong, healthy tooth puppets," received toothpaste samples, and learned about dental hygiene, eating healthy foods and the importance of going to the dentist.



### The Easter Bunny cometh

The Easter Bunny will visit the Brooks City-Base Youth Center March 26th. An Easter egg hunt will be held in the area adjacent to the center and there will be designated areas for four different age groups. The hunt starts promptly at 2 p.m. All children must bring their own baskets. The bunny will be available to take photographs with the children. A variety of food will be available following the event.



# Aerospace Career Day 2005

## A welcome from the wing commander

On behalf of the men and women of Brooks City-Base, I want to welcome you to Aerospace Career Day 2005.

This is the seventh year that Aerospace Career Day is totally dedicated to sharing with local students the various aerospace medicine programs at Brooks. This field trip is a great way for you to experience, in person, the exciting work that goes on here everyday.

Our mission at Brooks is aerospace medicine, which is broadly defined as supporting, protecting, and enhancing the human being in relation to his or her environment, whether that environment is combat or occupational.

Toward that end, we conduct research and produce products to enhance human performance and safety. We conduct global surveillance and assess and manage health, safety and environmental risks for the U.S. Air Force and the Department of Defense.

We also educate and train well over 5,000 people a year in the various aerospace medicine disciplines and serve as the primary aerospace medicine consul-

tation resource for the Air Force, the Department of Defense, and most of the world.

Our bioenvironmental assessment teams can travel anywhere in the world on very short notice to monitor potential health hazards in the realm of biological, chemical, or nuclear risks. We provide 24/7 support for environmental and occupational emergencies globally.

We have been doing aerospace medicine longer than any other place on the planet and we are the Air Force focal point for operational medicine.

Our Aerospace Career Day team has put together a program for you that highlights the science, math, technology and health-related aspects of our day-to-day work, and shows how these efforts directly support our mission.

This educational experience will provide a unique glimpse at today's high tech Air Force.

I honestly think you will leave here with a greater understanding of how the Air Force uses science and technology to support our warfighters.



BRIG. GEN. THOMAS TRAVIS  
311th Human Systems Wing  
commander

Thank you for your enthusiastic participation in this event and thanks to your schools for their continued support. Enjoy your time at Brooks.

Brooks City-Base

## Aerospace Career Day celebrates technology milestone

By Rudy Purificato  
311th Human Systems Wing

The 2005 edition of Aerospace Career Day at Brooks March 1-3 will celebrate the 40th anniversary of America's first spacewalk by honoring native San Antonian Edward H. White.

Amy Ross, a National Aeronautics and Space Administration spacesuit designer and daughter of astronaut Jerry Ross, will help commemorate the historic achievement in space during special presentation planned at Hangar 9, which is officially known as the Edward H. White II Museum.

Astronaut White made space history during the Gemini IV mission June 3, 1965, when he became the first American to perform an Extra Vehicular Activity, commonly known as a spacewalk. He walked in space for 20 minutes while tethered to the spacecraft operated by crew member James McDivitt.

Gemini IV was the second of 10 manned Gemini missions designed to perfect spacecraft rendezvous and docking techniques. The Gemini series also exposed astronauts to longer periods of weightlessness in preparation for the Apollo moon missions.

Aerospace Career Day commemoration of this milestone event in America's space program is part of an annual initiative to show students technological and

scientific innovations that resulted from collaborative research. Many of America's achievements in space, and in other scientific disciplines, have been and are currently being made at Brooks City-Base. This continues to be accomplished through joint research conducted by the Air Force and its partnerships with academia, industry and other branches of America's Armed Forces.

"We're excited about giving students an opportunity to see how the Air Force has developed technology that has contributed to advances in science, especially in the field of aerospace medicine. We hope they will have a better understanding of what we do here that may contribute to their decision to pursue future careers in science and engineering," said Lt. Col. Mike Van Valkenburg, Aerospace Career Day project officer.

An estimated 1,800 students from nearly 150 public and private schools throughout Bexar County and outlying communities will be treated to a cornucopia of scientific marvels that are an integral part of Air Force research. Much of this will be showcased during a one hour, five minute fitness center-based virtual tour of key compo-

nents in aerospace research and training that includes the centrifuge and altitude chambers. This year the virtual tour presentation will showcase something new: a visit to EMEDS, short for Emergency Medical Support. Brooks is home to EMEDS training for active duty medical personnel who are deployed worldwide to support America's warfighters.

Students will also be treated to a motivational concert by Top Flight from the Air Force Band of the West. One of Aerospace Career Day's most popular events, Dr. Eric Holwitt's highly entertaining and interactive "Chemistry Magic Show," also returns for an encore performance.



Photo by Staff Sgt. Alfonso Ramirez Jr.

A member of the Air Force Band of the West sings to a student at the 2004 Brooks Aerospace Career Day. About 1,700 students participated in last year's event.

# March 1-3, 2005



# Presenting: Aerospace Career Day 2005

## Chemistry magic

Retired Air Force Maj. (Dr.) Eric Holwitt presents a chemistry magic show consisting of various types of chemical reactions, including oxidations and reductions, single and double displacements, acid-based reactions and clock reactions. Students experience a very visual presentation by Dr. Holwitt, who incorporates exploding balloons, fires, liquid nitrogen, color changes and smoke into the program.

These reactions demonstrate chemical principals such as endothermic and exothermic reactions and chemical kinetics.

Dr. Holwitt learned most of these demonstrations when he taught chemistry and biochemistry at the U.S. Air Force Academy from 1980-1984. This show has been presented around San Antonio, in at least 50 schools, and for groups including the Young Astronauts, Boy Scouts, Cub Scouts and Girl Scouts.



Dr. Holwitt received his bachelor of science degree from Stevens Institute of Technology, which he attended with the aid of an Air Force ROTC scholarship. His graduate work was at Columbia University. He has served at the Armed Force Radiobiology Research Institute in Bethesda, Md., and at the Air Force Research Laboratory.

## Air Force RAPTOR

The RAPTOR is the newest Air Force Recruiting Service's mobile marketing tool which comprises of a customized sport utility vehicle, F/A-22 Mini-Jet and trailer. This tool, designed to appeal to the target demographic, men and women 16-24 years old, promotes the Air Force "Cross into the Blue" recruiting campaign and collects data on people interested in joining the Air Force.

The SUV is a 2003 GMC Yukon XL which tows a specially designed, high-tech 20-foot RAPTOR trailer, and a



scale model F/A-22 – the new Air Force fighter-attack jet. The vehicle's entertainment center features a 42-inch plasma screen, with a 640-by-480 VGA resolution and 160-degree viewing angle. The multi-input head unit has CD, DVD, AM/FM and public address capabilities.

## TOP FLIGHT — AIR FORCE BAND OF THE WEST

Yes, Top Flight is the Band of the West's answer to America's popular demand for classic rock 'n' roll and traditional country, as well as the more current tunes of today's music scene. This group was formed in 1991 and performs songs from artists ranging from Shania Twain to Creed and Aretha Franklin to Lonestar. These highly skilled professional



musicians are able to reach thousands of young people each year with an important "Stay in School" and "Say No to Drugs" message by performing for schools throughout the Southwest. Top

Flight travels more than 30,000 miles annually throughout Texas, Arizona, New Mexico and Louisiana to support official military events, as well as community relations events.

## virtual tour

Students attending Aerospace Career Day 2004 will be treated to a special virtual tour of some of the most popular missions at Brooks City-Base. Students learn about how Brooks scientists and engineers study the effects of gravitational forces on the human body and how flight crew members learn about the effects of hypoxia during a presentation about the centrifuge and altitude chamber.

Brooks presenters will take a few volunteers from the audience during a spatial disorientation demonstration.

## CENTrifuge — physiology of acceleration

Students learn about the physics and physiological effects of high G maneuvering, loss of consciousness and G-LOC episodes and a description of the training program established to prevent them.

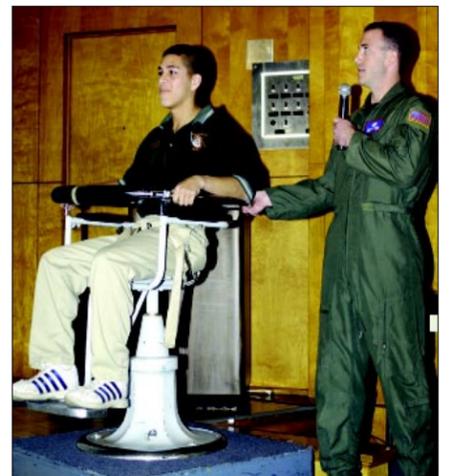


## Hypobarics — altitude chamber



The altitude chamber was designed to simulate high altitude and its effect on the human body, such as trapped gas and hypoxia, as well as provide a means of training aircrew on the use of various pieces of aircraft oxygen equipment.

## Spatial Disorientation Barany Chair

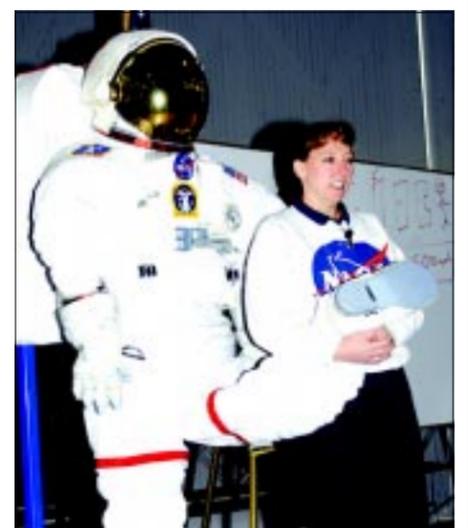


The Barany Chair is a 1940s vintage device that was used to increase pilot awareness of the dangers of spatial disorientation during the early years of aviation. The Barany chair is still used to teach about disorientation in the cockpit.

## AMY ROSS — SPEAKER

When astronaut Jerry Ross blasted off in March 2002 on a shuttle mission to the international space station, he can thank his daughter for helping ensure his survival. Responsible for certifying the space worthiness of advanced space suits and gloves, Amy Ross knows the work she performs for the National Aeronautics and Space Administration is vital to the space program as well as her father's safety.

Ms. Ross speaks about the unique experiences and contributions to manned space flight.





The history of Brooks Air Force Base, now Brooks City-Base, parallels the history of military aviation and aviation medicine in the United States. After the United States entered World War I, in 1917, the U.S. Army recognized the need for trained flying instructors. San Antonio was chosen for a year-round training site due to its favorable climate, good water supply and convenient transportation facilities.

The Chamber of Commerce assembled an 873-acre tract southeast of the city and offered it as the site for the new aviation field. The site was originally called Gosport Field, a name derived from the flight instruction system used at the new base.

On Dec. 5, 1917, the Army named the site Kelly Field No. 5, and groundbreaking ceremonies were held Dec. 8. On Feb. 4, 1918, the new facility was renamed Brooks Field in honor of Cadet Sidney J. Brooks Jr., a native of San Antonio who died during his final training flight Nov. 13, 1917, when his aircraft turned nose down and crashed at Kelly Field No. 2. He was awarded his wings and commission posthumously.

The base was formally established under the command of Major Henry C. Pratt on Feb. 16, 1918.

#### Curtiss JN-4D

The first aircraft flown from the new Brooks Field on March 28, 1918, was a Curtiss JN-4D "Jenny" of World War I fame, piloted by Major Leo A. Walton. During its first year of operation, Brooks Field consisted of 16 hangars with extensive support facilities. Of these early buildings, Hangar 9, dedicated to the memory of Edward H. White II is the only structure still in existence.

In May 1919, the pilot instructor school was closed and a Balloon and Airship School was opened for pilots and ground crew members. A huge 91,000-square-foot airship hangar was constructed.

However, a series of mishaps in operating the hydrogen-filled craft led to the transfer of the school from Brooks to Scott Field, Ill., on June 26, 1922. Brooks then became home to the Primary Flying School of the Army Air Corps from September 1922 to July 1931.

More than 1,400 pilots were trained during those years and graduates included such notable aviation figures as Generals Claire L. Chennault, Thomas D. White, Nathan F. Twining, and Colonel Charles A. Lindbergh. During this period, the School of Aviation Medicine moved from Mitchel Field, N.Y., to Brooks.

#### School of Aviation Medicine

The flying school provided aviation medicine research and, in turn, the School of Aviation Medicine provided a means to screen, examine and upgrade the caliber of cadets being trained. Both organizations were transferred to the newly constructed Randolph Field in October 1931.

On Sept. 28, 1929, Brooks was the site for the first successful mass parachute drop in the world. The concept, conceived and implemented at Brooks, confirmed the practicality of tactical paratrooper warfare.



During the 1930s, Brooks was the center of aerial observation activity and several units were trained in tactical observation.

In 1940, Brooks became the site for a special school for combat observers. In 1941, advanced training in piloting single-engine aircraft was conducted with emphasis on aerial observation skills.

Observation training was discontinued in August 1943, when Brooks became the home for training pilots in the "new" B-25 bomber. This remained the mission of the base for the rest of World War II.

#### Reserve training center

When pilot training at Brooks Field concluded at the end of World War II, the base took on a new mission.

In September 1951 in the midst of the Korean War, the Air Force established a reserve training center at Brooks Air Force Base. The 907th Air Reserve Wing was assigned to the center.

Conceived originally as a troop carrier unit, the 907th ARW did not receive its first planes until the summer of 1952. The planes were T-6 Texans, an indication of the 907th's new mission, pilot training. Almost before it began its new mission, the 907th ARW was replaced by the 8707th Pilot Training Wing (single-engine).

On the first anniversary of its activation, the 8707th had six T-6s and two C-46 Commandos assigned. That changed in April 1953 when the wing acquired five North American T-28s.

In 1954 the wing converted to C-46s and the 8707th was replaced by the 433rd Troop Carrier Wing.

In 1956 reservists celebrated their fifth anniversary at Brooks with the arrival of another aircraft, the C-119 transport. Four years later, the 433rd Troop Carrier Wing moved to Kelly AFB. During the late 1950s, Brooks transformed from a flying training center to a center for modern medical research and development and education center.

#### Aerospace Medical Center

The transition started in the summer of 1959 when the School of Aviation Medicine returned to Brooks from Randolph Air Force Base. Brooks

became the headquarters for the Aerospace Medical Center on Oct. 1, 1959.

An era in aviation history ended June 20, 1960, when the last plane took off from Brooks. The aircraft was a C-131 "Samaritan" piloted by Col. L.B. Matthews, commander of Det. 1, 1st Aeromedical Transport Group.

The Aerospace Medical Center represented the initial step in placing the management of aerospace medical research, education and clinical practice under one command.

In recognition of its participation in the U.S. space program, the school's title was changed to School of Aerospace Medicine in May 1961, and both the school and center were reassigned from Air Training Command to Air Force Systems Command in November 1961. They were assigned to a new organization, the Aerospace Medical Division.

#### President John F. Kennedy

On Nov. 21, 1963, President John F. Kennedy dedicated four buildings in the complex that housed the Aerospace Medical Division headquarters and the U.S. Air Force School of Aerospace Medicine (USAFSAM). This was his last official act before his assassination in Dallas the following day.

The aerospace era placed new demands on medical research and education, particularly in space medicine. Research efforts at USAFSAM were instrumental in making manned space flight a reality.

Flight simulation devices, the centrifuge, altitude chambers, lasers and other specially developed equipment, enabled researchers to perform laboratory studies of man's tolerances in the aerospace environment.

#### Brooks missions

In the early 1980s, other organizations relocated to Brooks including the Air Force Human Resources Laboratory and the U.S. Air Force Occupational and Environmental Health Laboratory.

In addition to the Air Force Office of Medical Support, Brooks became home to the Air Force Drug Testing Laboratory and the Air Force Systems

Command's Systems Acquisition School.

A new Schriever Heritage Park, named for General Bernard Schriever, first commander of Air Force Systems Command, was dedicated on Oct. 7, 1986. The Aerospace Medical Division was redesignated the Human Systems Division on Feb. 6, 1987. In November 1987, Brooks celebrated its 70th anniversary. During the celebration the Sidney J. Brooks Jr. Memorial Park was dedicated.

#### Air Force super laboratory

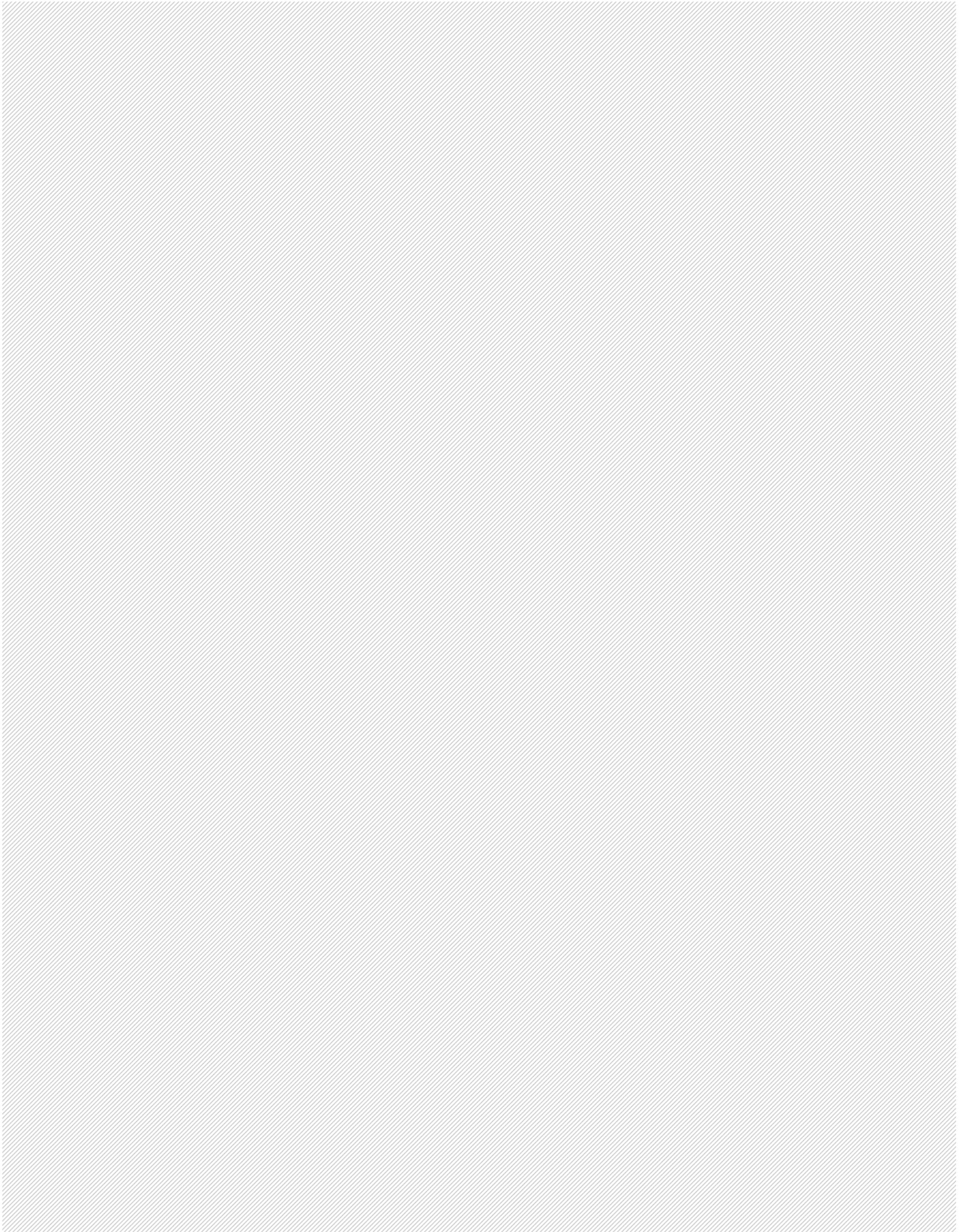
In 1991 four of Brooks' laboratories — the Air Force Human Resources Laboratory, the Air Force Drug Testing Laboratory, the Harry G. Armstrong Aerospace Medical Research Laboratory, and the Air Force Occupational and Environmental Health Laboratory, as well as the laboratory function of the USAFSAM — combined to become the Armstrong Laboratory. It was one of four super laboratories in the Air Force.

Also, the Air Force Center for Environmental Excellence was formed and located at Brooks. This organization has the monumental task of restoring closing installations to their original state and of ensuring that future installations are environmentally safe.

Consolidations continued in 1992 with the merging of the Air Force Systems Command and the Air Force Logistics Command into a new organization called the Air Force Materiel Command. As a part of the new command, the Human Systems Division at Brooks again changed its name to the Human Systems Center.

In a further effort to streamline facilities, improve quality and cut costs, the Human Systems Center was placed under the command of the Aeronautical Systems Center at Wright Patterson AFB, Ohio. On Oct. 1, 1998, HSC was redesignated the 311th Human Systems Wing.

Brooks Air Force Base became Brooks City-Base after special legislation was passed to allow the Air Force to convey the property to the city of San Antonio through the Brooks Development Authority. The first-of-its-kind conveyance took place July 22, 2002.





Photos by Rudy Purificato

Brooks center Slim Bailey dunks the ball against opponent San Antonio College, scoring two of his team-high 20 points.

## Men's varsity basketball team loses heartbreaker to San Antonio College

By Rudy Purificato  
311th Human Systems Wing

The San Antonio College men's varsity basketball team clashed with their Brooks City-Base counterparts for the first time here Feb. 10, igniting what could become a new city rivalry. In a hotly contested battle, Brooks lost a heartbreaker in overtime, 79-76.

The SAC Rangers, possessing a 10-7 Alamo Community College District league record, succeeded in winning their first game of the season against a military team with a dramatic 79-76 victory over the Brooks men in overtime.

"We had lost to Randolph and Lackland AFBs," said first-year head coach William Dykes, admitting those squads had been overpowering. Against Brooks, however, SAC's two-headed monster, guards Eric Nuncio and Joel Campbell, was the difference in the game.

Point guard Nuncio and shooting guard Campbell both scored a game-high 24 points. Most of their scoring from the three-point range came at critical times during the contest, with Nuncio and Campbell nailing four and five, respectively, from the perimeter.

Countering them was Brooks power forward Desmond Fahie who dominated the first half by scoring 16 of his 20 points, while teammate Slim Bailey controlled both ends of the boards while chipping in 13 of his 20 points in the second half and

in overtime. The team's veteran star, Rob Taylor, who was supposed to play more of a reserve role this season, kept the game close with another clutch performance. He scored 13 of his 19 points in the second half and in overtime.

Brooks would have won the game if not for two key free throws that SAC's Paul Njoke nailed with 4.8 seconds remaining in regulation to knot it at 71-71. It was the second time in as many years that Brooks failed to close out a first-time opponent. Last year, they lost their inaugural game at home against the British Royal Air Force basketball team 94-90 in overtime.

The loss dropped the Brooks men's regular season record to 7-16.



Brooks guard Rod Bryant attempts to dribble past San Antonio College's Joel Campbell.

## Veteran multi-sport star named male athlete of the year

By Rudy Purificato  
311th Human Systems Wing

His trophy case is filled with awards from an unparalleled Brooks sports career. His legacy as one of the greatest athletes who ever played here was assured when he recently made Brooks history as the first two-time recipient of the base's highest sports honor.

Rob Taylor, the quintessential multi-sports star, was recently named "Male Athlete of the Year" for 2004. He first earned the award in 2000. Since then, he has continued to carve a niche for himself in Air Force sports lore as the athlete who has been known for winning the big games.

"It is a big surprise," he said about winning the award. At 36, he believes his best years may

be behind him. However, he remains fiercely competitive and committed to helping his teams win championships.

Possessing the heart of a true champion, Taylor's contributions to Brooks sports are legendary. While injuries and work commitments had an impact on him in 2004, he nevertheless did what great athletes do when their playing time is limited: he rose to the occasion when given an opportunity to help his team.

That was most evident in 2004, a contributing factor to his selection as the top male athlete on base. Having recovered from torn quadriceps at the beginning of the 2003-04 varsity basketball season, Taylor mentally blocked out any lingering soreness to turn in a sparkling, typically dominating performance during the Martin Luther King holiday tournament at Sheppard AFB in Wichita Falls, Texas last January.

Hosea Talbert, then head coach of the Brooks men's squad, said of Taylor's selfless performance, "He is not at 100 percent playing level, but he gave us 110 percent."

By the time the basketball season was winding down in March 2004, Taylor had regained his form as one of the most reliable and fearless power forwards ever to play Air Force basketball. In typical fashion, he stepped up

his level of play against the British Royal Air Force varsity team by scoring 21 of his game-high 31 points in the second half. His performance helped erase a 12-point deficit during a comeback that knotted the game in regulation.

His greatest hoop game as a Brooks star occurred during the 2003 Air Force Materiel Command tournament. Taylor, part of a championship-caliber club dubbed the "Magnificent 8," helped elevate his teammates' game while transforming them from underdogs to the tournament's 'Cinderella' team.

Taylor, who would earn yet another AFMC All-Tourney honor for his brilliant performance, was nearly unstoppable as he led Brooks to its best finish ever as tournament runners-up. So impressed by Taylor's super-human performance, Brooks veteran point guard Robert Garcia gave the tourney's Most Valuable Player Award he had earned to Taylor. His coach noted, "For us, watching Taylor operate on the floor, was to a lesser degree, watching Michael Jordan. He was unbelievable."

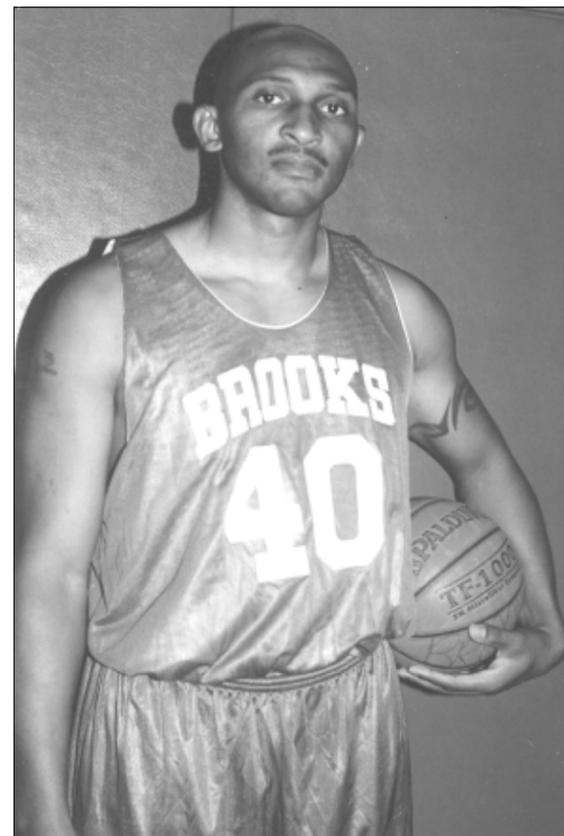
He has been equally unbelievable on the softball diamond and flag football gridiron as a star varsity and intramural player. Among his awards are AFMC All-Tourney honors in softball

and basketball. More important to him is his team contributions, helping Air Force Research Laboratory intramural squads win many softball and flag football championships.

"I always play to win. I'm very competitive," admits the Tennessee native who is an AFRL medical lab technician.

His sportsmanship, perhaps, is the most significant factor in him being honored again. Having subjected his no longer youthful body to years of athletic abuse, Taylor considered sitting out the 2004-2005 varsity basketball season. He eventually relented to play another season, knowing that his team needed him.

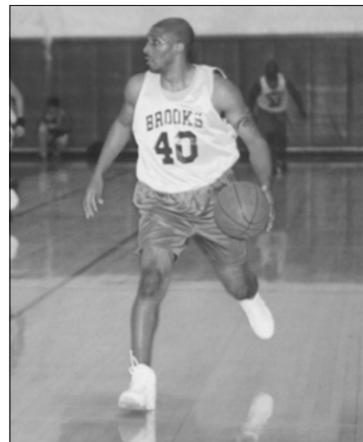
Initially accepting a diminished role as a reserve player to save wear and tear on his body,



Photos by Rudy Purificato

ROB TAYLOR  
Brooks Male Athlete of the Year

Taylor's competitiveness and commitment to excellence eventually prevailed. He has once again emerged "as a force to be reckoned with" against more youthful, athletic opponents. It is this and countless other acts of leadership for which Taylor again has been recognized. According to his many supporters, he truly epitomizes what a Male Athlete of the Year should be.



Rob Taylor in a recent game against San Antonio College.



# Circuit training tests stamina, will power

By Rudy Purificato  
311th Human Systems Wing

It's not a heart-stopper, but it will certainly pump you up. You'll work your butt off without fear of it growing back.

Called circuit training, the Brooks Fitness Center's extreme physical conditioning program is becoming for many people here the ultimate full-body workout.

"I used to do it at Mildenhall (Air Base, England)," said Brooks fitness center specialist Hosea Talbert, who developed the Brooks training in concert with the base Health and Wellness Center.

Originally created as a physical conditioning tool to help active duty military personnel prepare for new Air Force physical training requirements, circuit training is both an aerobic and aenerobic series of exercises designed to improve strength, agility and cardiovascular activity.

"You'll work some muscles you don't touch during a normal workout," says Mr. Talbert who conducts circuit training on



A circuit training participant performs one of 18 physical conditioning exercises. Each of the 36 total exercise stations is repeated twice during the 47-minute workout.

Tuesdays and Thursdays at 6:15, 7:15 and 11:30 a.m. Each session lasts exactly 47 minutes and features a series, or circuit, of 36 exercise stations.

Using the entire expanse of the gym floor, the circuit is layed out in a clockwise configuration. Each station contains a laminated card that describes the physical task to be performed, plus exercise equipment ranging from jump ropes to dumb bells.

"If you do the circuit right you're going to be sore the next day," Mr. Talbert said, noting that regular participants quickly adapt to the grueling regimen.

The circuit actually has a total of 18 exercises that are done twice in sequence by participants motivated by "old school funk music" blaring overhead. Serving as part ringmaster, part 'lifeguard,' Mr. Talbert facilitates the training using a whistle and stopwatch.

"I blow the whistle every 45 seconds for them to change stations," he said, noting that he is always watchful in guarding against potential injuries. Participation is staggered, with Mr. Talbert actively engaging in the sweat-producing routine.

Newcomers are given an opportunity to walk through each station to learn the requirements. No one is required to complete the full circuit which, at first, appears intimidating and intense. However, its tasks can be performed by just about anyone willing to spend time there to improve their health.

Circuit exercises include dumb bell press, push-ups, agility rings, jumping jacks, crunches, calf raises, step platform, torso twists, shoulder press, step with bicep curl, triceps dip, front shoulder raises, stability ball push-ups, squats with metal bar option, jump rope, lunges, wind sprints, jogging in place and jogging around the gym floor's perimeter.

Besides the scheduled workout times, Mr. Talbert will conduct customized circuit training for military organizations upon request. The most recent unit-designed circuit training Mr. Talbert conducted involved the 311th Human Systems Program Office.

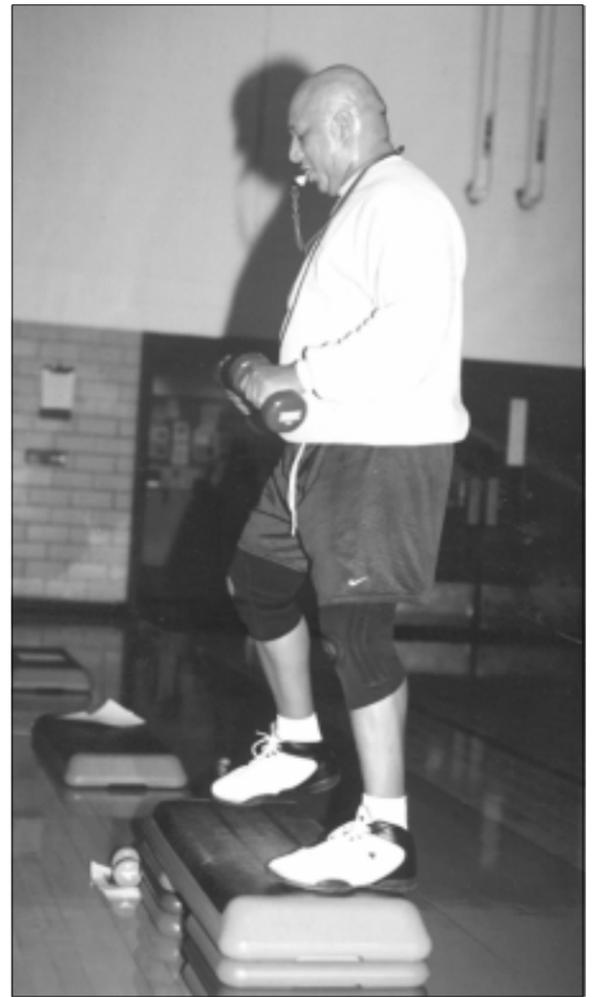
"While my focus is primarily to get military personnel combat ready through physical conditioning, we can't forget the civilian sector of the Brooks community," Mr. Talbert said.

The program is being expanded to include federal civilian workers, part of a community outreach initiative that supports Air Force Materiel Command's new emphasis on physical fitness for the civilian workforce.

"To enjoy exercising, you have to make it fun. We do that with circuit training. If nothing else, you can dance at each station if you want to. The purpose of doing it is to take yourself out of a sedentary routine and relieve added stress," Mr. Talbert said.

Inaugurated here last summer, circuit training was expanded to 32 stations in January. Mr. Talbert plans to further expand the training to include between 40-41 stations. There are several variations of circuit training, Mr. Talbert noted, including an outdoor version involving obstacles and a modified indoor version in which participants rotate from exercise machine to exercise machine in the life fitness room.

"It's growing in popularity. We have had as many as 45 people participate in one



Photos by Rudy Purificato  
Brooks Fitness Center specialist Hosea Talbert keeps the beat during a circuit training session, which he facilitates.

session," he said. Circuit training can be modified to fit individual needs. "If you have a medical condition, we can modify it for you in terms of low impact and less time on station," Mr. Talbert said. He added that his circuit training partner Pablo Segura.

No matter if you have bad knees or a bad back, circuit training can be performed in varying degrees of intensity so long as participants have the will power to do it. Stamina comes later, along with the benefits of doing something physically rewarding.

## Dodgeball bounces back to Brooks

By Rudy Purificato  
311th Human Systems Wing

The super-charged, adrenaline producing game of dodgeball is back with a vengeance at Brooks when the second tournament in as many years is held Feb. 25 at the fitness center gym.

Sponsored by the Brooks Company Grade Officers Council, the event builds on last year's interest in this game when the base Combined Federal Campaign committee staged a dodgeball tourney here for the first time. That event, won by the 68th Information Operations Squadron, raised \$573 for CFC.

"People have become interested in the sport. Anybody who can dodge can play," said Brooks Fitness Center director Roy Conatzer. The Fitness Center and CGOC are co-sponsoring this event as a morale-boosting activity that contributes to team building, conditioning and agility.

This event will follow the same criteria used in last year's event in which 14 teams, composed of six players each, competed. The teams can be mixed

with men and women, Mr. Conatzer noted, explaining that team composition doesn't really matter in dodgeball where any breathing warm body will do. The object of the game is to eliminate as many of an opponent's players from the floor in a specified time. This is accomplished by hitting them in any part of their anatomy with one of six large red rubber balls. The characteristics of this modern game are tame compared to this sport's predecessor that dates to ancient Rome's gladiatorial contests.

Besides the satisfaction of being the last man or woman standing on the floor, the top two teams will be rewarded. "We're charging a small fee to defray the cost of awards," Mr. Conatzer says, referring to the \$25 team entry fee. In addition to a team award, T-shirts will be given to participants whose teams finish first and second. Depending on the turnout, the tournament will feature either a round robin or single elimination format. The tourney starts at 9 a.m. To sign up, contact the fitness center at 536-2188.

## Women's hoops squad routs opponents

By Rudy Purificato  
311th Human Systems Wing

While the men's squad suffered a heartbreaking, overtime loss against San Antonio College, the women's varsity basketball team was breaking the hearts of its opponent.

The women's squad, led by forward Lea Valdez who had a team-high 23 points, rolled over the Lady Rangers with a 75-53 victory.

The rout was obvious from the start as Brooks scored the game's first 13 points enroute to 20-3 lead.

In addition to Valdez's 23 points, teammate guard/forward Samantha Earl scored 19 points, followed by Trena McCartney with 15 points and Veronica Berry-Jones with 10 points.

Brooks took advantage of the Lady Rangers in the second half by wearing them out physi-

cally, as only five SAC players suited up for the contest. The Lady Rangers' made a valiant comeback effort in the second half on the strength of their scoring leaders, forward Vanessa Serna and guard Erica

Hernandez who both scored 15 points and freshman forward Kemi Fasheyide from Nigeria who chipped in 11 points.

The Brook's women upped their season record to 3-1, while the Lady Rangers fell to 1-3.



Photo by Rudy Purificato  
Lea Valdez, forward on the women's varsity basketball team, splits two San Antonio College defenders with a pass inside. Her game-high 23 points helped lead her team to a 75-53 victory.

## CONGRATULATIONS

Lt. Col. Scott Nichelson of the Air Force Institute of Operational Health correctly predicted the New England Patriots as Super Bowl victors to win the Discovery's Super Bowl Challenge